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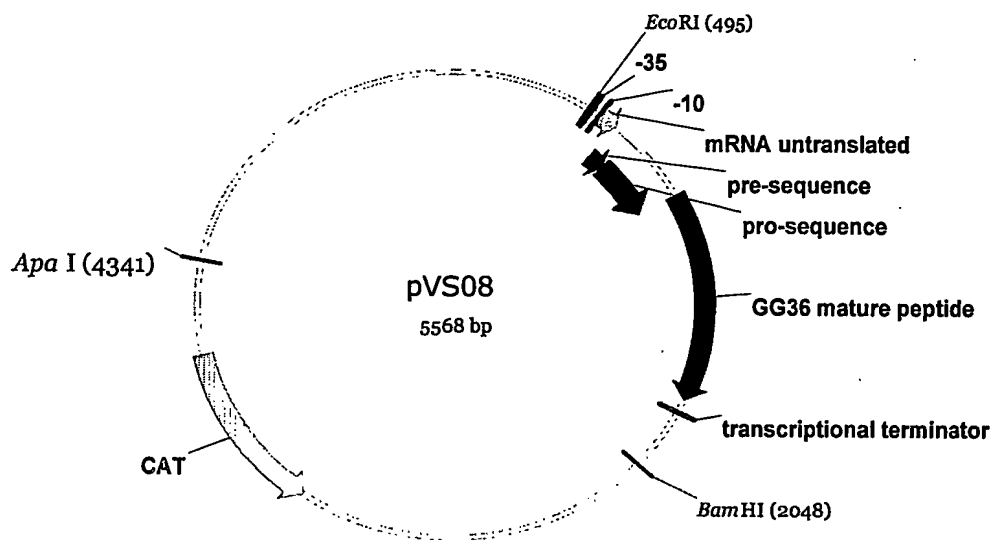


FIG. 1

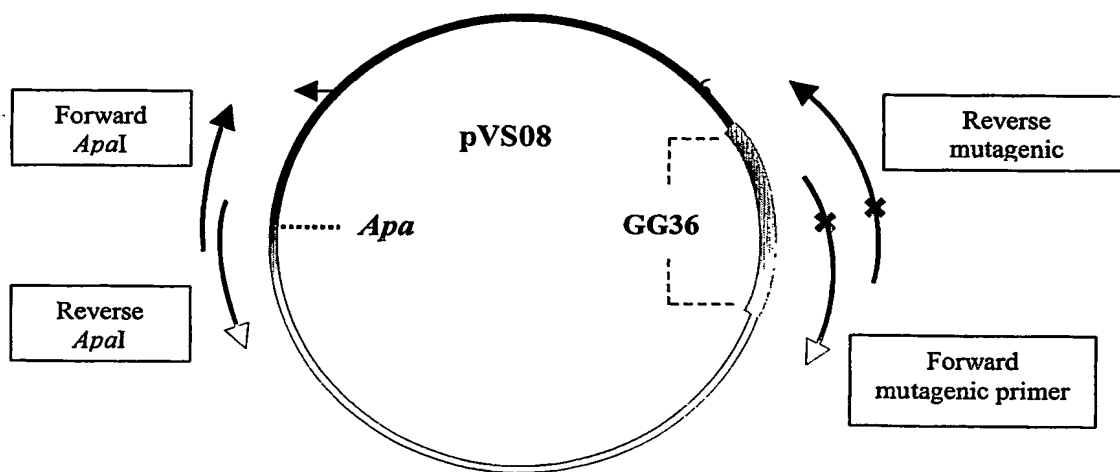


FIG. 2

COMPARISON OF SUBTILISIN SEQUENCES FROM:

B.amyloliquefaciens
B.subtilis
B.licheniformis
B.lentus

01	10	20	30	
1	Q S V P Y G V S Q I K A P A L H S Q G Y T G S N V K V A V I D S G I D S S H P			
A	Q S V P Y G I S Q I K A P A L H S Q G Y T G S N V K V A V I D S G I D S S H P			
A	Q T V P Y G I P L I K A D K V Q A Q G F K G A N V K V A V L D T G I Q A S H P			
A	Q S V P W G I S R V Q A P A A H N R G L T G S G V K V A V L D T G I S T * H P			
41	50	60	70	
D	L K V A G G A S S M V P S E T N P F Q D N N S H G T H V A G T V A A L N N S I G			
D	L N V R G G A S S F V P S E T N P Y Q D D G S S H G T H V A G T I A A L N N S I G			
D	L N V V G G A S S F V A G E A Y N * T D G N G H G T H V A G T V A A L D N T T G			
D	L N I R G G A S S F V P G E * P S T Q D D G N G H G T H V A G T I A A L N N S I G			
81	90	100	110	
V	L G V A P S A S L Y A V K V L G A D G S G Q Y S W I I N G I E W A I A N N M D			
V	L G V S P S A S L Y A V K V L D S T G S G Q Y S W I I N G I E W A I S N N M D			
V	L G V A P S V S L Y A V K V L N S S G S G S Y S G I V S G I E W A T T N G M D			
V	L G V A P S A S L Y A V K V L G A S G S G S S I A Q G L E W A G N N G M H			
121	130	140	150	
V	I N M S L G C P S G S A A L K A A V D K A V A S G V V V A A A A G N E G T S G			
V	I N M S L G C P T G S T A L K T V V D K A V S S G I V V A A A A G N E G S S G			
V	I N M S L G C A S G S T A M K Q A V D N A Y A R G V V V V A A A A G N S G S G			
V	A N L S L G S P S P S A T L E Q A V N S A T S R G V L V V A A A A S G N S G A G S			

FIG.-3A

161
SSSTTVGYPGKYPSPVIAVGAVDSSNQRAASFSSVGPPELLDDVMA
SSTTVGYPGKYPSPSTIAVGAVDSSNQRAASFSSVGPPELLDDVMA
STNTIGYPPARYPANAMAVGATDDQNNNRASFSQYAGGLDIVA
* * * * *

201
PGVSSIQSSTLPGLPGGTYGAYNGTSMASPHVAGAAALILSKHPN
PGVSSIQSSTLPGLPGGTYGAYNGTSMATPHVAGAAALILSKHPN
PGAGVYSSSTYPGNTTAASSLNGTSMATPHVAGAAALILSKHPN
PGVNVQSSSTYPGNTTAASSLNGTSMATPHVAGAAALILSKHPN

241
WTNTQVRRSSLENTTKLGDSFFYGGKGLINVQAAQ
WTNTAQVRRSSLENTTKLGDSFFYGGKGLINVQAAQ
LSASQVRRSSLENTTKLGDSFFYGGKGLINVEAAQ
WSNVQVRRSSLENTTKLGDSFFYGGKGLINVEEATR

FIG._3B

FIG._3

FIG._3A

FIG._3B

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FIG. 4

GTGTGTGGGCCCATCAGTCTCACGACC.

FIG. 5

GTGTGTGGGCCCTATTCGGATATTGAG.

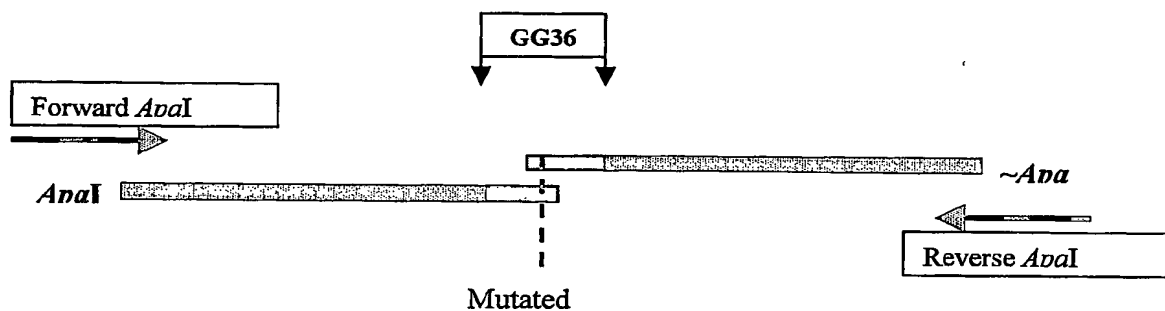


FIG. 6

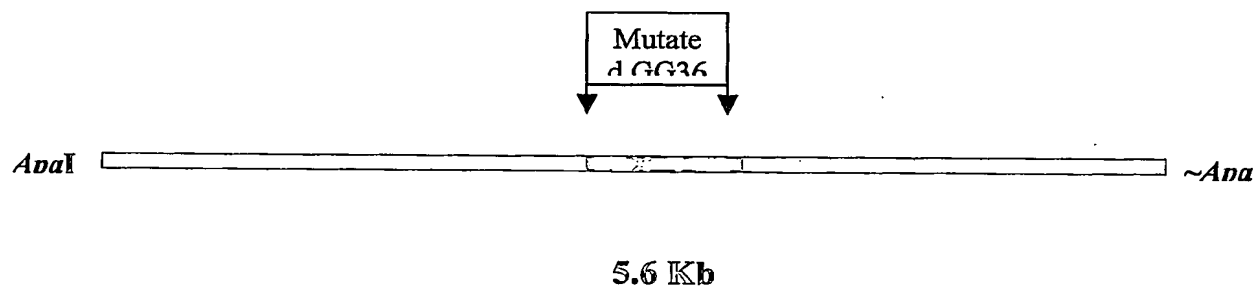


FIG. 7